

Universal External Laptop Battery - Specification and User Manual



A. Specification

- 1) **Cell** : 9 X Panasonic 18650 Li-Ion
- 2) **Input voltage** □ 16.5V DC/2.0A □ ±5% □
- 3) **Output voltage**: □ ±3% □ 12-24V
- 4) **Power** □ 90W
- 5) **Capacity** □ 67Wh
- 6) **Charge time** □ 4.5hours
- 7) **Usage time** □ 3-5 hours (depending on programmes running)
- 8) **Cycles** □ 300+
- 9) **Work temperature** □ -10°-70°
- 10) **Temperature for transportation** □ -20° □ 60°
- 11) **Size** □ 171 (L) × 112 □ W □ × 25 □ H □ mm
- 12) **Weight** □ 622g (battery pack)

B. Function

- 1 □ Over voltage protection
- 2 □ Under voltage protection
- 3 □ Over current protection
- 4 □ Over output current protection
- 5 □ Over output voltage protection
- 6 □ Over temperature protection
- 7 □ Safety fuse
- 8 □ Standby current: Below 100 uA
- 9 □ Automatic and digital display

C. Accessories

1. 1 x AC Adapter(DC 16.5V) with ac power cord
2. 1 x Retractable charging cable
3. 11 x Interchangeable DC tips

- Compatible with most notebook computers including Acer, Compaq/HP, Dell, IBM/Lenovo, Samsung, Sony, Toshiba, and many other brands.

Tip No	Brand	Voltage
Tip 01	Sony, Fujitsu, Panasonic	16v
Tip 02	Sony	19v, 19.5v
Tip 03	Toshiba	15v
Tip 04	IBM / Lenovo	16v
Tip 05	Generic 5.5mm x 2.5mm	18v, 18.5v, 19v (fits many brands)
Tip 07	Acer	18v, 18.5v, 19v
Tip 08	Compaq / HP	18v, 18.5v, 19v
Tip 09	Dell (with pin)	19.5v
Tip 10	Compaq / HP (with pin)	18v, 18.5v, 19v
Tip 13	Samsung	19v
Tip 15	Lenovo (with pin)	20v

D. User Manual:

1. **Charging the external battery:** Turn the switch to "OFF/Charge". Connect the AC adapter to the external battery at the "IN" socket; The LED will display "CHA" when you connect AC power.
2. Press capacity button, the green light will flash and the battery will begin charging. When LED stops flashing when pressing the capacity button again, the battery is fully charged.
3. **Charging to the notebook:** Turn the switch to "ON", the LED light will display "---" and will flash. Connect the tip suitable for your laptop to one end of the reel, and insert the other end of reel into the "OUT" socket. (The two socket ends of the reel are different so you cannot place the tip at the wrong end by accident – the tip will only fit one end). The output voltage will be displayed on the LED. Connect the end with the tip to the notebook.
4. Please set the switch to "OFF/CHARGE" when not in use.